

CDR RID Report

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Document Presentation Package for 8/14

RID ID	CDR	7 3
Review	SDPS/CSMS	
Originator Ref	IVVRID-PP-0	
Priority	2	

Section ECS Architecture

Page RM-15

Figure Table NA

Category Name Interoperability (IOS) Design

Actionee ECS

Sub Category

Related RIDs
Subcategory ID

Subject Universal References

Description of Problem or Suggestion:

IMPACTS:

- (a) Technical Risk - UR concepts in OODCE have been proven but the application to ECS object identification is new
- (b) Schedule - UR standard selection will impact CSMS coding Modifying the Universal Reference (UR) concept to identify and track application and data granule objects in the manner HAIS is proposing is an untried technology adaptation which is the foundation for the entire distributed ECS system. Yet it merits only 3 partial pages in the highlevel 305 volume 4. Details of its implementation are not in the detailed design. The ECS UR adaptation is a key element for interoperability in CSMS. Not to have a standard selected at CDR is a serious problem. Although the Early Bird briefings mentioned DOR, the 305 document doesn't reference it and the CDR presentation said a standard was not selected yet. No list of candidate standards was presented. No date for selection of a standard was given. There was no discussion as to whether the selected standard would be totally adopted or whether customization or tailoring for ECS would be necessary. Description: The "Universal References" were discussed on page RM-15 during the 8/14 ECS Architecture presentation. These are object identifiers tying together client requests and the corresponding objects on the service side of a transaction. They are used to "uniquely identify services, data and client sessions within the ECS" (Internal ICD Section 6.3.7) . At the presentation, N. Prasad stated that the standard for universal references had not yet been selected. Universal References are only briefly described in the Internal ICD and the Release A System Design Overview. While the use of universal identifier concepts has been proven on the Internet and in OODCE, use of UR concepts for application object identification is new. Details of the ECS UR adaptation should be in the detailed design, including:
- 1) the way that the UR fits into each of the 305 design documents across the board,
 - 2) dependency assumptions of the individual Sub-system/CIs on UR functionality, and

Originator's Recommendation

Expedite selection of a Universal Reference Standard, In the meantime, provide ESDIS a list of candidate standards and set a date for selection. Expedite selection of a Universal Reference Standard, In the meantime, provide ESDIS a list of candidate standards and set a date for selection.

GSFC Response by:

GSFC Response Date

HAIS Response by:

HAIS Schedule

HAIS R. E.

HAIS Response Date

Status Open

Date Closed

Sponsor McDonald

Attachment if any
